

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-10. (canceled).

Claim 11. (currently amended): A method for transmitting data over a radio interface between a base station and a plurality of subscriber stations in a radio communication system, the method comprising the steps of:

distinguishing channels in a broadband frequency band using individual spread codes, wherein at least one common channel is allocated to a plurality of connections existing in parallel for use at successive times;

signaling in-band a subsequently valid allocation of the at least one common channel for one of the plurality of connections in at least one of the channels of the data transmission using (1) a respective TCFI value that specifies combinations of data for a plurality of services to be transmitted within the at least one of the channels, (2) a data rate and (3) at least one of the individual spread codes contained in accordance with the data rate allocated to the connection;

agreeing upon a relationship between among (1) the TCFI value and the combinations of data for a plurality of services to be transmitted within the at least one of the channels, (2) the data rate, (3) the at least one of the individual spread codes contained in the allocated data rate and (4) the at least one common channel to be used in a separate signaling channel; and

transmitting the data in the at least one of the channels for data transmission based on the allocation.

Claim 12. (canceled):

Claim 13. (original): A method for transmitting data over a radio interface between a base station and a plurality of subscriber stations in a radio communication system as claimed in claim 11, wherein the transmission of data occurs in a downlink direction from the base station to the plurality of subscriber stations.

Claim 14. (original): A method for transmitting data over a radio interface between a base station and a plurality of subscriber stations in a radio communication system as claimed in claim 13, wherein a largest possible number of channels are allocated as the common channels, with at least one channel per connection being allocated exclusively.

Claim 15. (original): A method for transmitting data over a radio interface between a base station and a plurality of subscriber stations in a radio communication system as claimed in claim 14, wherein the common channels are allocated for connections having a high maximum data rate.

Claim 16. (original): A method for transmitting data over a radio interface between a base station and a plurality of subscriber stations in a radio communication system as claimed in claim 14, wherein the common channels are allocated for connections having high data rate dynamics.

Claim 17. (previously presented): A method for transmitting data over a radio interface between a base station and a plurality of subscriber stations in a radio communication system as claimed in claim 11, wherein, for a subset of the data rates, the in-band signaling can be used to select from a plurality of combinations of channels for a connection.

Claim 18. (original): A method for transmitting data over a radio interface between a base station and a plurality of subscriber stations in a radio communication system as claimed in claim 11, wherein a relationship between the allocated data rate and the common channels to be used is agreed upon at connection setup.

Claim 19. (original): A method for transmitting data over a radio interface between a base station and a plurality of subscriber stations in a radio communication system as claimed in claim 12, wherein a partial information item is used to signal in-band the individual data rates for the services within a connection and the use of one or more channels.

Claim 20. (currently amended): A radio communication system for transmitting data over a radio interface between a base station and a plurality of subscriber stations, comprising:

a plurality of channels forming the radio interface in a broadband frequency band, the plurality of channels being distinguished using individual spread codes, and at least one common channel being allocated to a plurality of connections existing in parallel for use at successive times;

a transmitter for transmitting a combination of data for a plurality of services on a connection within at least one channel for data transmission between the base station and the plurality of subscriber stations; and

a signaling device for determining and signaling a subsequently valid allocation of the common channel for a connection using (1) a respective TCFI value that specifies combinations of data for a plurality of services to be transmitted within the at least one of the channels, (2) a data rate and (3) at least one of the individual spread codes, contained in the~~using a data rate,~~ which is allocated to the connection, via in-band signaling in at least one channel of the data transmission, ~~and for signaling wherein~~ a relationship ~~between~~ among (1) the TCFI values that specify combinations of data for a plurality of services to be transmitted within the at least one of the channels, (2) the data rate and (3) the at least one of the individual spread codes contained in the allocated data rate, and wherein the allocated common channel is transmitted in a separate signaling channel.

Claim 21. (currently amended): A method for transmitting data over a radio interface between a base station and a plurality of subscriber stations in a radio communication system, the method comprising the steps of:

identifying individual spread codes in a plurality of channels on a broadband frequency band;

distinguishing said channels in accordance with said identified spread codes, wherein at least one common channel is allocated to a plurality of connections existing in parallel for use at successive times;

signaling in-band an allocation of the at least one common channel for one of the plurality of connections in at least one of the channels of the data transmission using (1) a respective TCFI value that specifies combinations of data for a plurality of services to be

transmitted within the at least one of the channels, (2) a data rate and (3) at least one of the individual spread codes contained in accordance with the data rate allocated to the connection;

agreeing upon a relationship between the among (1) the TCFI value and the combinations of data for a plurality of services to be transmitted within the at least one of the channels, (2) the data rate, (3) the at least one of the individual spread codes contained in the allocated data rate, and wherein the at least one common channel to be used is set in a separate signaling channel;
and

transmitting the data in the at least one of the channels for data transmission based on the allocation.